Congratulations! You passed!

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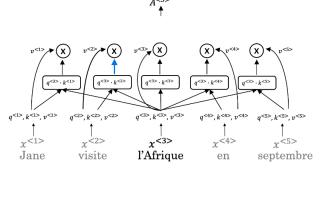
To pass 80% or higher

Go to next item

1.	A Transformer Network, like its predecessors RNNs, GRUs and LSTMs, can process information one word at a time. (Sequential architecture).				
	○ True				
	False				
	∠ ^A Expand				
	 Correct Correct! A Transformer Network can ingest entire sentences all at the same time. 				
2.	Transformer Network methodology is taken from:	1/1 point			
	Attention Mechanism and RNN style of processing.				
	RNN and LSTMs				
	Attention Mechanism and CNN style of processing.				
	○ GRUs and LSTMs				
	∠ ⁿ Expand				
	○ Correct Transformer architecture combines the use of attention based representations and a CNN convolutional paying based of processing				

3. What are the key inputs to computing the attention value for each word?

1/1 point



- The key inputs to computing the attention value for each word are called the quotation, knowledge, and value.
- The key inputs to computing the attention value for each word are called the query, knowledge, and vector.
- The key inputs to computing the attention value for each word are called the quotation, key, and vector.
- The key inputs to computing the attention value for each word are called the query, key, and value.

∠ Expand

✓ Correc

 $The \ key inputs \ to \ computing \ the \ attention \ value \ for \ each \ word \ are \ called \ the \ query, \ key, \ and \ value.$

4.	4. What letter does the "?" represent in the following representation of Attention?				
	$Attention(Q,K,V) = softmax(\frac{QK^{T}}{\sqrt{d_{\uparrow}}})V$				
	○ t				
	○ v				
	⊚ k				
	○ q				
	∠ ⁷ Expand				
	○ Correct k is represented by the ? in the representation.				
5. Are the following statements true regarding Query (Q), Key (K) and Value (V)?					
	Q = interesting questions about the words in a sentence K = qualities of words given a Q				
	V = specific representations of words given a Q				
	↑ False				
	∠ [™] Expand				
	⊙ Correct				
	Q = interesting questions about the words in a sentence, K = qualities of words given a Q, V = specific representations of words given a Q				
6.	$Attention(W_i^QQ,W_i^KK,W_i^VV)$	1/1 point			
	i here represents the computed attention weight matrix associated with the ith "head" (sequence).				
	○ False				
	True				
	∠ [™] Expand				
	 Correct i here represents the computed attention weight matrix associated with the "head" (sequence). 				
	z nere represents the computed attention weight matrix associated with the nead (sequence).				
7	Following is the architecture within a Transformer Network (without displaying positional encoding and output	1/1 point			
••	layers(s)).	1/1 point			
	Encoder Decoder Add 4 Norm				
	Add & Norm Feed Forward Neural Network Add & Norm				
	Add & Norm Multi-Head Attention				

What is generated from the output of the <code>Decoder</code>'s first block of <code>Multi-Head Attention</code>?

